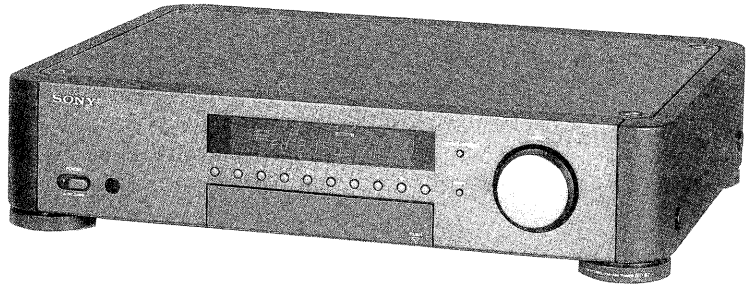
ST-S7

SERVICE MANUAL

US Model
AEP Model
UK Model



SPECIFICATIONS

Tuner

Circuit system: FM stereo, FM/AM superheterodyne tuner
Quartz-locked PLL digital synthesizer system

FM tuner

Frequency range: 87.5 – 108 MHz
Antenna terminals: 75 ohms unbalanced
Intermediate frequency: 10.7 MHz
Sensitivity (at 46 dB quieting)
18.0 dBf, 2.2 μV (mono)
40.0 dBf, 24.5 μ (stereo)
Signal-to-noise ratio (at 40 kHz deviation)
74 dB (mono)
70 dB (stereo)

Harmonic distortion	wide	mono	0.04%
		stereo	0.05%
	narrow	mono	0.06%
		stereo	0.08%
IM distortion	wide	mono	0.04%
		stereo	0.05%
	narrow	mono	0.06%
		stereo	0.08%

Separation: 50 dB (at 1 kHz)
Frequency response: 40 Hz - 12.5 kHz ±0.5 dB
Selectivity: (at 400 kHz)
80 dB (wide)
90 dB (narrow)
(at 300 kHz)
45 dB (wide)
70 dB (narrow)
Capture ratio: 1.0 dB
AM suppression ratio: 65 dB
Image response ratio: 70 dB
IF response ratio: 70 dB
Spurious response ratio: 80 dB
Muting threshold: 30 dBf
Automatic tuning threshold: 30 dBf
Output: 410 mV, 4.7 kohms (at 40 kHz deviation)

AM tuner

Frequency range:
US model:
MW: 530–1,710 kHz
AEP, UK, Germany model:
MW: 531–1,602 kHz
LW: 153–279 kHz
Italian model:
MW: 522–1,611 kHz
LW: 144–288 kHz
Antenna: AM loop antenna
External antenna terminal
Intermediate frequency: 450 kHz
Usable sensitivity (when AM loop antenna is used)
300 μV/m (999 kHz)
1 mV/m (216 kHz)
Signal-to-noise ratio: 54 dB (50 mV/m) (999 kHz)
50 dB (50 mV/m) (216 kHz)
Harmonic distortion: 0.3% (50 mV/m, 400 Hz)
Selectivity: 32 dB

– Continued on page 2 –

使用時は添付資料も参照のこと
Refer to the additional documents.

FM STEREO / FM-AM TUNER

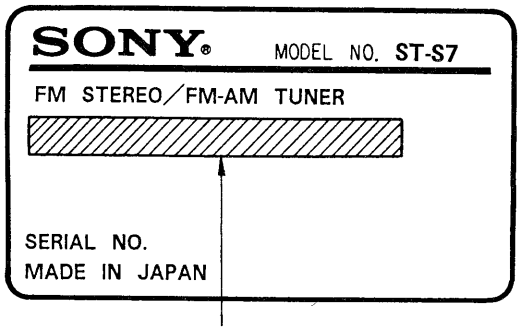
SONY®

General

Power requirements	US model: 120 V AC, 60 Hz AEP, Germany, Italian model: 220 – 230 V AC, UK model: 240 V AC, 50/60 Hz (or 240 V AC adjustable by authorized Sony personnel), 50/60 Hz
Power ocnsumption	10 W
AC outlet	1 unswitched, 120 W max.
Dimensions	Approx. 430 × 95 × 360 mm (w/h/d) (17 × 3 3/4 × 14 1/4 inches)
Weight	Approx. 4.7 kg (10 lb 6 oz)
Accessories supplied	Connecting cord (1) FM ribbon antenna (1) AM loop antenna (1) Antenna connector (1)

Design and specifications subject to change without notice.

MODEL IDENTIFICATION
– Specification Label –



US model : AC 120 V 60 Hz 10 W
AEP, Germany, Italian model : AC 220 – 230 V ~ 50/60 Hz
UK model : AC 240 V ~ 50/60 Hz

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SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

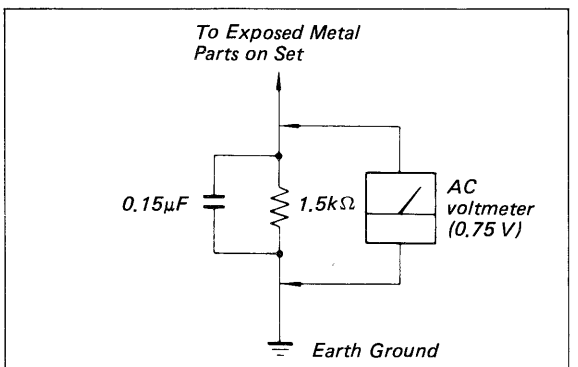


Fig. A. Using an AC voltmeter to check AC leakage.

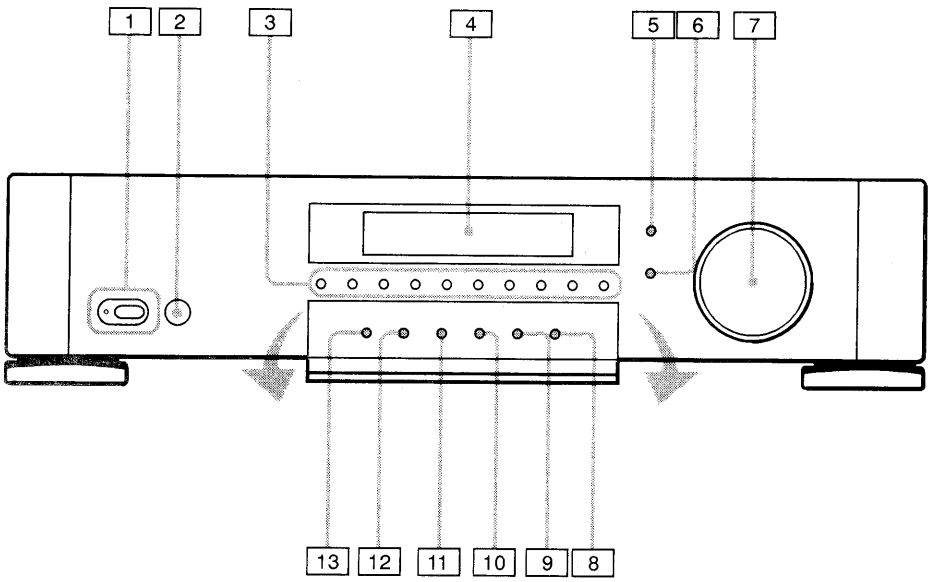
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1
GENERAL

This section is extracted from instruction manual.

1-1. LOCATION OF CONTROLS



Refer to the pages indicated in ● for details.

Tuner

1 POWER switch and indicator
2 Remote sensor
Can be used to remotely control this unit with:
- A remote commander with a R mark provided with a Sony amplifier and which can operate a tuner.
- An optional Sony remote commander with a R mark which can operate a tuner.

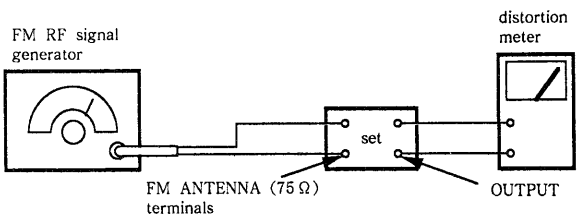
3 Preset buttons ⓱, ⓳
Used for storing and calling up station frequencies
4 Display window
5 TUNING/PRESET button ⓬, ⓮, ⓴
6 SHIFT button ⓱, ⓳
7 TUNING knob ⓭, ⓯, ㉑
8 MEMORY button ⓰, ⓲
9 BAND button ⓬, ⓮
10 AUTO TUNE button ⓭, ⓯, ⓳
11 STEREO/MUTE button ⓮
12 IF BAND button ⓮
13 ANT ATT button ⓮

SECTION 2
ELECTRICAL ADJUSTMENTS

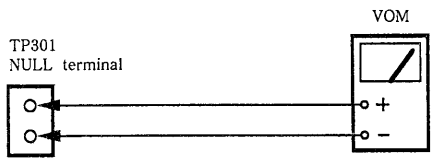
FM SECTION

FM DISCRIMINATOR ALIGNMENT
(NULL and MONO Distortion)

Setting :



Carrier frequency: 98 MHz
Modulation: 1 kHz
Deviation: 75 kHz (US model)
40 kHz (AEP, UK model)
Output level: 1 mV (60 dBμ)

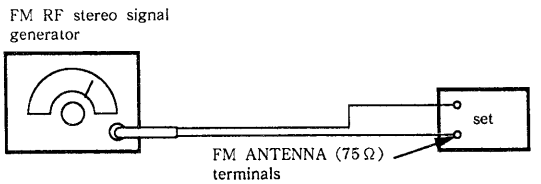


Procedure :

1. Tune the set to 98 MHz.
2. **Adjust the T301 for 0 V reading on VOM. (NULL adj.)**
3. Adjust T302 for a minimum reading on the distortion meter. (MONO Distortion adj.)
4. **Repeat the procedure in several times.**

FM METER ADJUSTMENT

Setting :



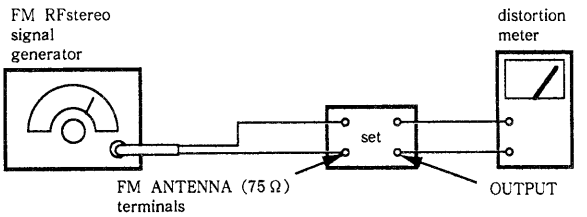
Carrier frequency: 98 MHz
Modulation: 1 kHz
Deviation: 75 kHz (US model)
40 kHz (AEP, UK model)
Output level: 10 mV (80 dBμ)

Procedure :

1. Tune the set to 98 MHz by pressing the TUNING buttons.
2. Adjust RV102 so that the 10 point of the signal meter goes on.

FM STEREO SEPARATION ADJUSTMENT

Setting :



Carrier frequency: 98 MHz
Output level: 1 mV (60 dBμ)
Modulation:

Audio (1 kHz):	33.75 kHz deviation (45%)	US model
Pilot (19 kHz):	7.5 kHz deviation (10%)	
Sub-channel (38 kHz):	33.75 kHz deviation (45%)	
Audio (1 kHz):	16.25 kHz deviation (40.625%)	AEP, UK, Germany, Italian model
Pilot (19 kHz):	7.5 kHz deviation (18.75%)	
Sub-channel (38 kHz):	16.25 kHz deviation (40.625%)	

Mode: stereo

Procedure :

Tune the set to 98 MHz

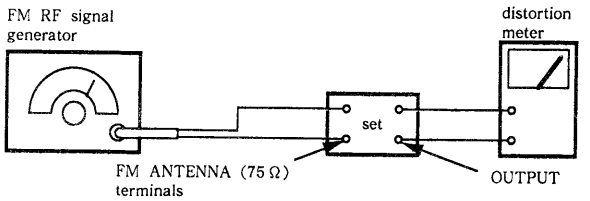
FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	ⓐ
R-CH	L-CH	ⓑ Adjust RV401 for minimum reading.
R-CH	R-CH	ⓒ
L-CH	R-CH	ⓓ Adjust RV401 for minimum reading.

L-CH Stereo separation : ⓐ − ⓑ
R-CH Stereo separation : ⓒ − ⓓ

The separations of both channels should be equal.

TUNED/FM IF GAIN ADJUSTMENT

Setting :



Carrier frequency: 98 MHz
Modulation: 1 kHz
Deviation: 75 kHz (US model)
40 kHz (AEP, UK model)
Output level: 17.8 μV (25 dBμ)

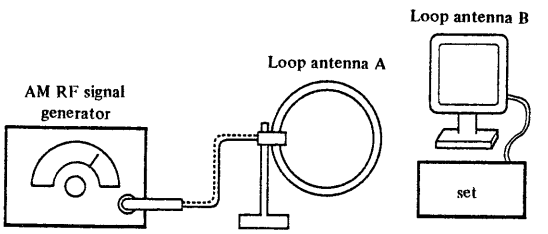
Procedure :

1. Push the IF BAND switch and put out the light the NARROW indicator in the fluorescent display.
2. Turn the RV301 and stop a turn the RV301 when "TUNED" indicator is bright.
3. Push the IF BAND switch and put on the light the "NARROW" indicator in the fluorescent display.
4. Turn the RV101 and stop a turn the RV101 when "TUNED" indicator is bright.

AM SECTION

AM METER ADJUSTMENT

Setting : BAND selector switch : MW or LW

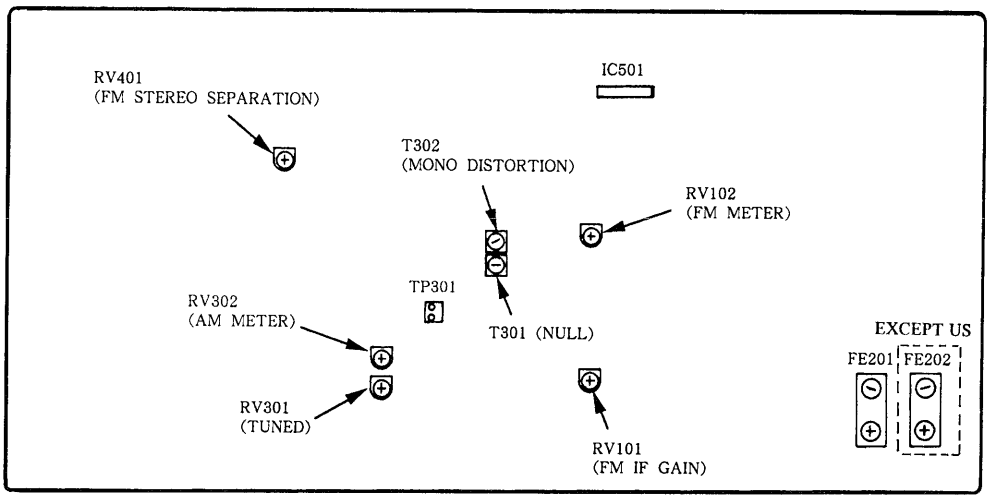


Carrier frequency: 999 kHz (MW)
216 kHz (LW) . . . (AEP, UK model)
Modulation: 400 Hz, 30%

Procedure :

1. Set Loop antenna A so that Loop antenna B input level becomes 94 dB/m (50.1 mV)
2. Tune the set to MW: 999 kHz (US model), LW: 216 kHz (AEP, UK model).
3. Adjust the RV302 so that the 10 point segment of the signal meter goes on.
4. Turn the set to MW : 999kHz and check that the 10 point segment of signal meter goes on.

TUNER BOARD (Component Side)



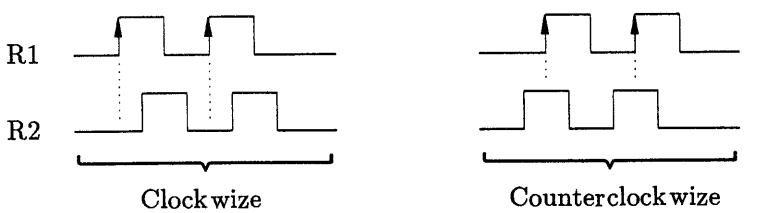
SECTION 3
DIAGRAMS

• IC701 SYSTEM CONTROLLER (TMP47C870N-4684)

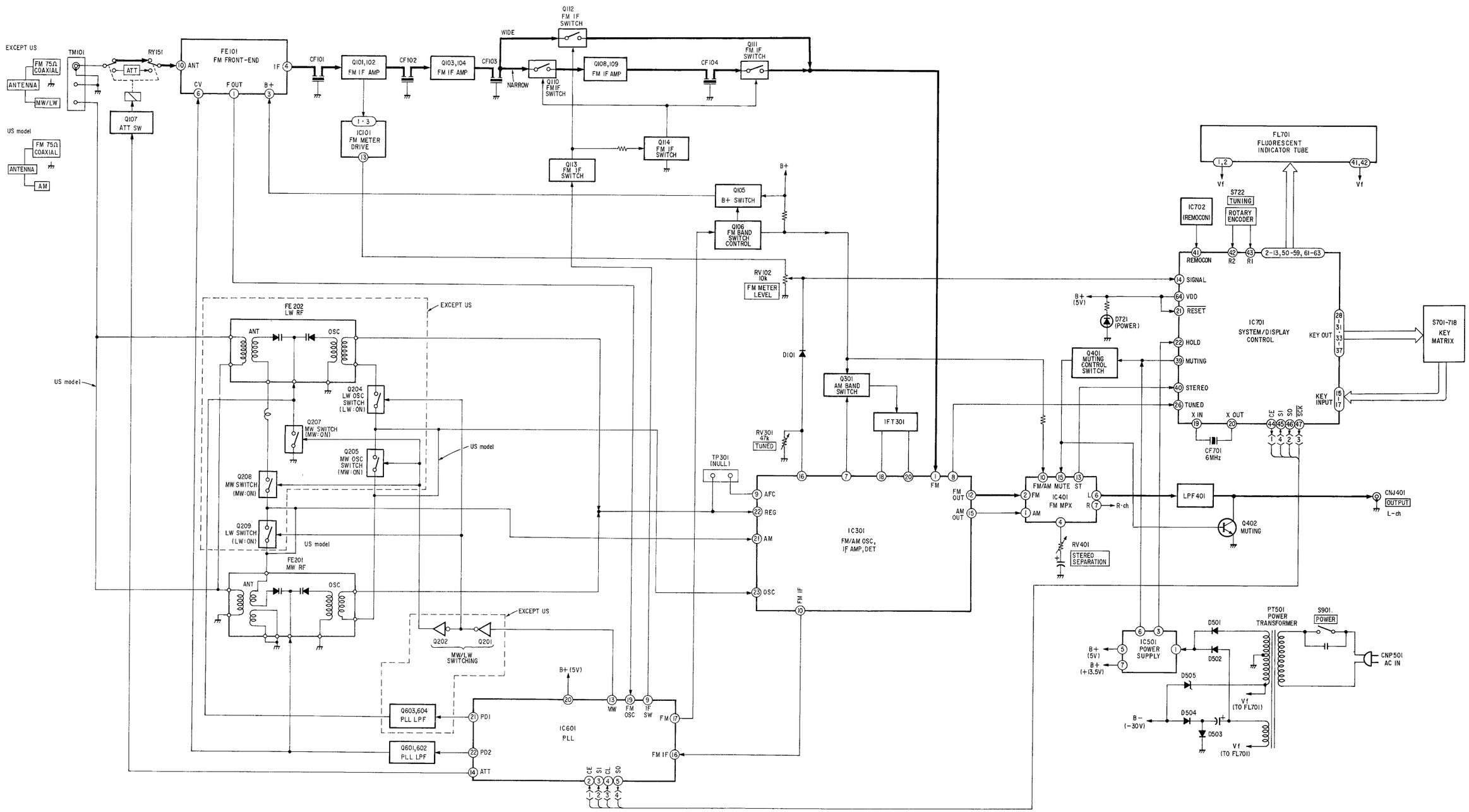
The terminals work to control tuner section (IC601 etc.) and FL tube display according to key input and signal from the remove controller.

Pin No.	Pin Name	I /O	Active	Description
1	V_{KK}	–		FL tube driving power supply (−30V)
2 - 13	a - l	O	H	FL tube segment output
14	SIGNAL	I		Signal level input (analog)
15 - 17	KEY INPUT	I	H	Key matrix input
18	TEST	I		Not used (GND)
19	X IN	I		Clock input (6.0MHz)
20	X OUT	O		Clock output
21	$\overline{\text{RESET}}$	I	L	Reset signal input
22	$\overline{\text{HOLD}}$	I	L	Hold signal input
23 - 26		–		Not used (open)
27	ATT	I		FM sensitivity select input (fixed to GND)
28 - 31	KEY OUTPUT	O	H	Key matrix output
32	GND	–		Power supply terminal (GND)
33 - 37	KEY OUTPUT	O	H	Key matrix output
38	VCO STOP	O	H	Tuning stop output
39	MUTING	O	H	Muting control output
40	STEREO	I	L	Stereo input
41	REMOCON	I	⎍	Remote control signal input
42, 43	R1, R2	I		Rotary encoder input *1
44	CE	O	H	PLL chip enable
45	SI	I		PLL serial data input
46	SO	O		PLL serial data output
47	$\overline{\text{SCK}}$	O		PLL serial transfer clock output
48, 49				Not used (open)
50 - 59	1G - 10G	O	H	FL tube digit output
60				Not used (open)
61 - 63	m - o	O	H	FL tube segment output
64	V_{DD}	–		Power supply terminal (+5V)

*1 ROTARY ENCODER INPUT

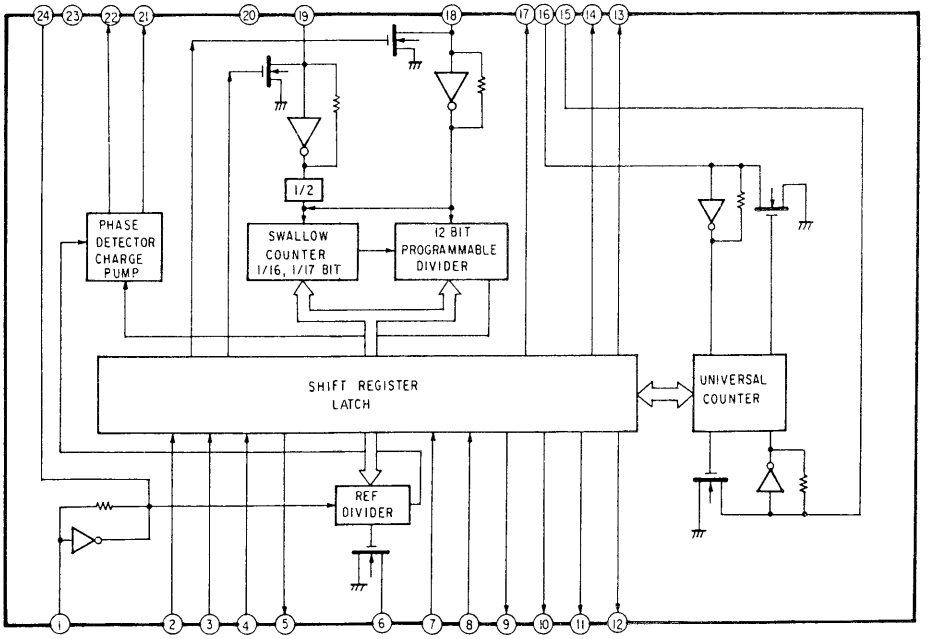


3-1. BLOCK DIAGRAM

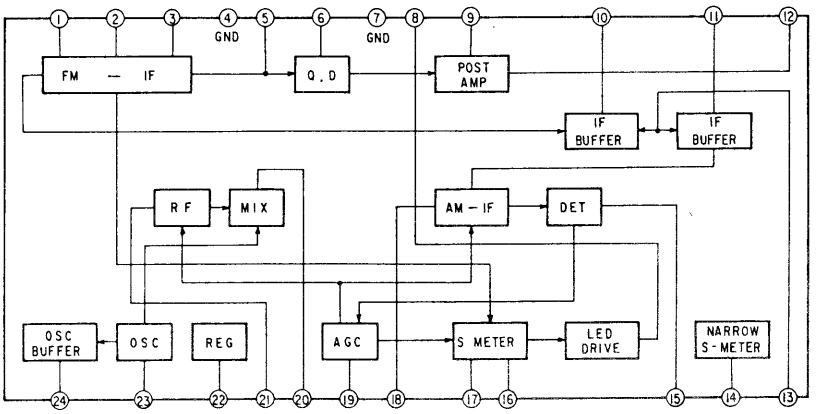


3-2. IC BLOCK DIAGRAM

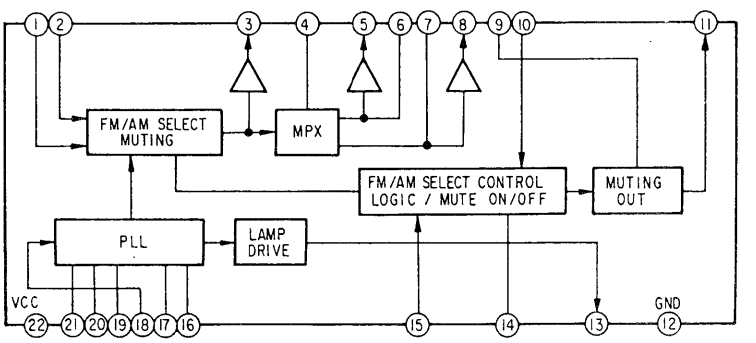
IC601 LC7218



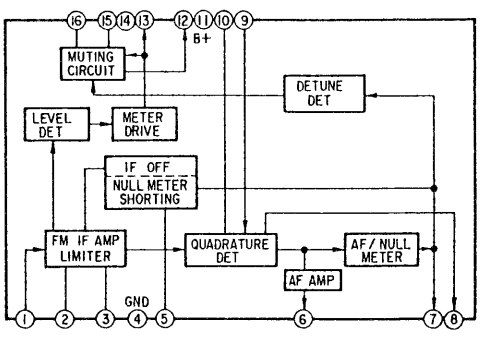
IC301 LA1266



IC401 LA3401



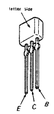
IC101 LA1235



3-3. SEMICONDUCTOR LEAD LAYOUTS

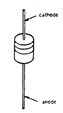
L A5667

DTC114TS
2SC3623



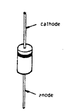
2SK246-GR3

UZ-12BS
UZ-39BSB
1SS120

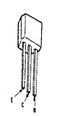


2SC3112A-B

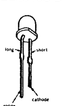
1T22A
10E2N



DTA144ES
DTC114ES
DTC144ES
2SC2603-EF
2SC2669-OY



SEL2510C-D



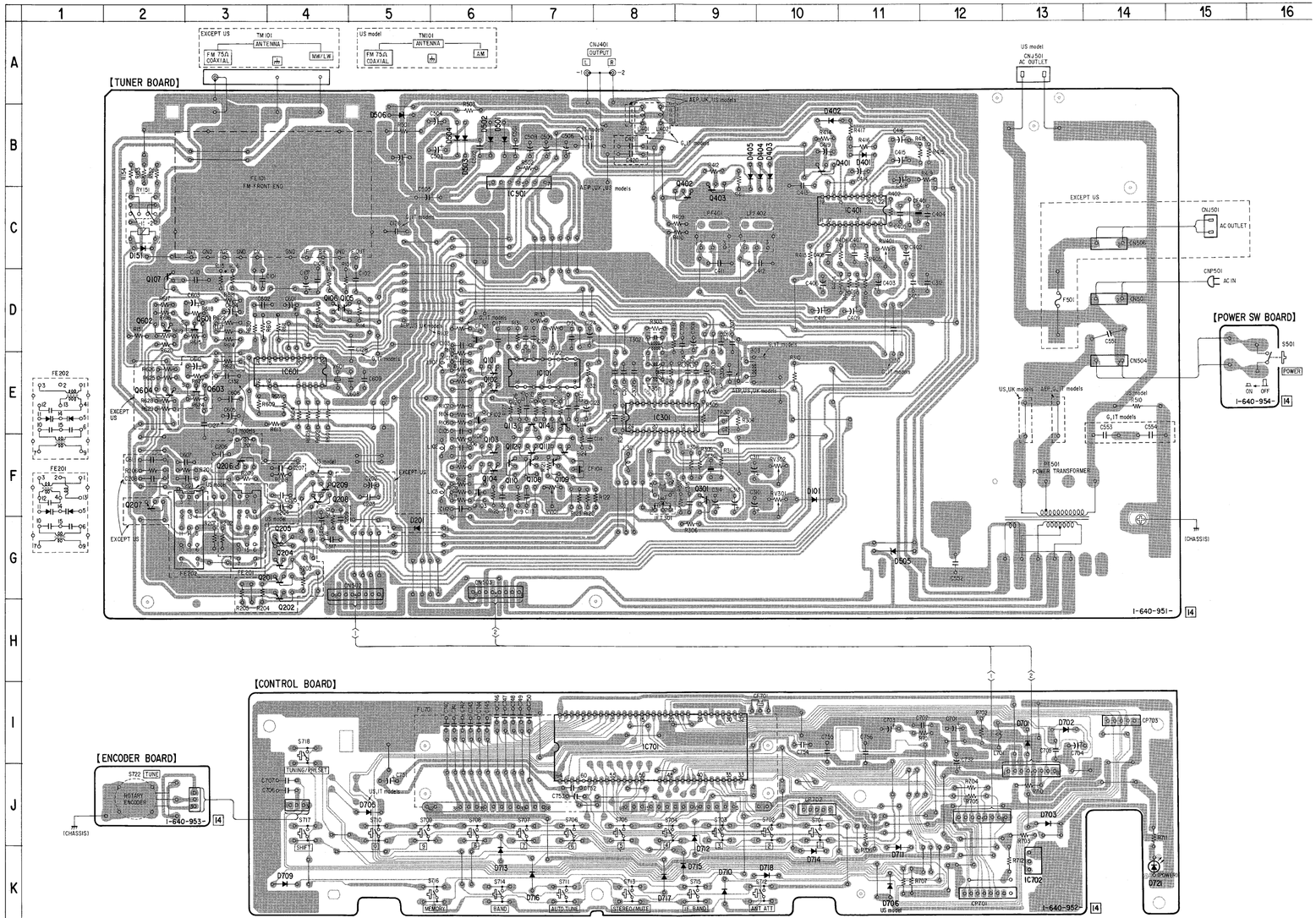
● **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D101	F-10	IC601	E-4
D151	C-2	IC701	I-8
D201	G-5	IC702	K-13
D401	B-11		
D402	B-10	Q101	E-6
D403	B-10	Q102	E-6
D404	B-10	Q103	F-6
D405	B-9	Q104	F-6
D501	B-6	Q105	D-4
D502	B-6	Q106	D-4
D503	B-6	Q107	D-2
D504	B-6	Q108	F-7
D505	G-11	Q109	F-7
D506	B-5	Q110	F-6
D701	I-13	Q111	F-7
D702	I-13	Q112	F-7
D703	J-13	Q113	E-7
D705	J-5	Q114	E-7
D706	K-11	Q201	G-4
D709	K-4	Q202	H-4
D710	K-9	Q204	G-4
D711	K-11	Q205	G-4
D712	K-9	Q206	F-3
D713	K-6	Q207	F-2
D714	K-10	Q208	F-4
D715	K-9	Q209	F-4
D716	K-7	Q301	F-9
D717	K-8	Q401	B-11
D718	K-10	Q402	B-9
D721	K-14	Q403	C-9
		Q601	D-3
IC101	E-7	Q602	D-2
IC301	E-8	Q603	E-3
IC401	C-11	Q604	E-2
IC501	C-7		

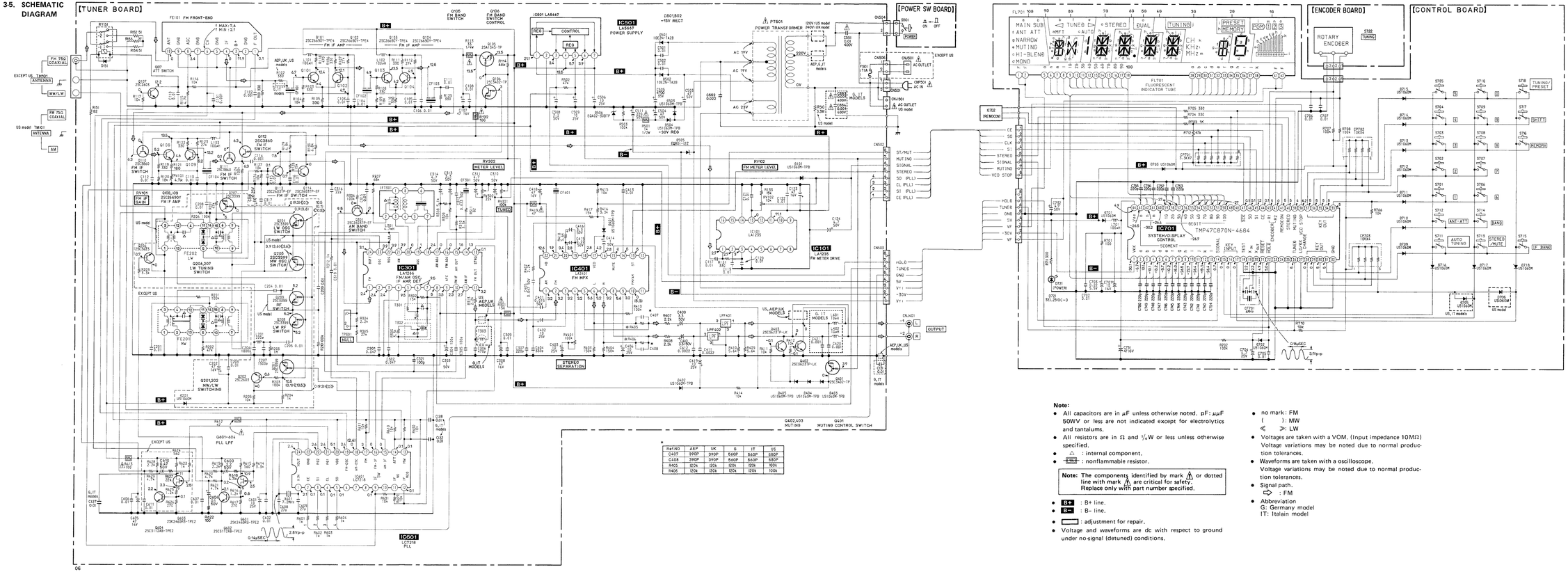
Note:

- ○—— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- Abbreviation
  G: Germany model
  IT: Italain model

3-4. PRINTED WIRING BOARDS



3-5. SCHEMATIC DIAGRAM



Ref.NO	AEP	UK	D	IT	US
C407	390P	390P	560P	560P	680P
C408	390P	390P	560P	560P	680P
R405	120k	120k	120k	120k	100k
R406	120k	120k	120k	120k	100k

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- ⚠ : nonflammable resistor.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

- B+ : B+ line.
- B- : B- line.
- : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark : FM
  ( ) : MW
  ≪ ≫ : LW
- Voltages are taken with a VOM. (Input impedance 10MΩ) Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
- Abbreviation
  G: Germany model
  IT: Italain model

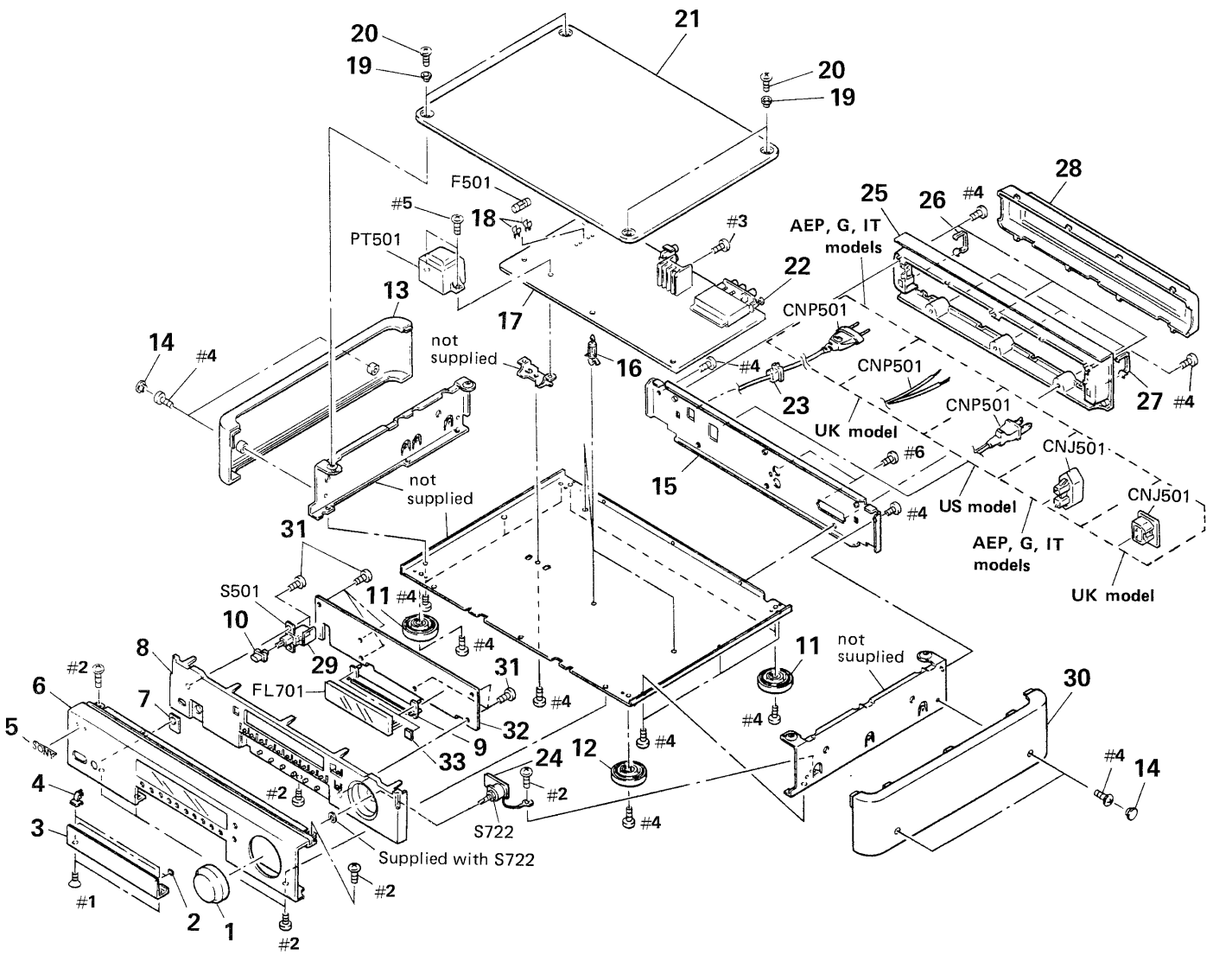
SECTION 4
EXPLODED VIEW

NOTE:

- –XX, –X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ Parts color ↑ Cabinet's color
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- Abbreviation
  G: Germany model
  IT: Italian model



Ref. No.	Part No.	Description	Remark
1	4-946-415-01	KNOB (DIA. 48)	
2	9-911-838-XX	SHEET	
3	4-946-432-01	LID	
4	4-946-440-01	ARM	
5	4-946-905-01	ENBLEM (NO. 4. 5), SONY	
6	4-946-414-01	PANEL, FRONT	
7	4-946-888-01	WINDOW (REMOTE CONTROL)	
8	X-4941-806-1	PANEL (MOLD) ASSY	
9	* 4-925-125-11	HOLDER, FL TUBE	
10	4-946-889-01	BUTTON (POWER)	
11	X-3363-548-2	FOOT ASSY	
12	X-4941-807-2	FOOT ASSY	
13	4-946-890-01	PANEL (L), SIDE	
14	4-946-893-01	CAP (SIDE PANEL)	
15	* 4-946-416-11	PANEL, BACK (AEP, IT)	
15	* 4-946-416-21	PANEL, BACK (G)	
15	* 4-946-416-31	PANEL, BACK (UK)	
15	* 4-946-416-52	PANEL, BACK (US)	
16	* 3-346-265-11	HOLDER, PC BOARD	
17	* A-4345-615-A	TUNER BOARD, COMPLETE (AEP)	
17	* A-4345-616-A	TUNER BOARD, COMPLETE (G, IT)	
17	* A-4345-617-A	TUNER BOARD, COMPLETE (UK)	
17	* A-4345-619-A	TUNER BOARD, COMPLETE (US)	
18	1-533-225-11	HOLDER, FUSE (EXCEPT US)	
19	4-928-025-11	ESCUTCHEON (TOP PLATE)	
20	3-721-187-01	SCREW (3X8)	

Ref. No.	Part No.	Description	Remark
21	* 4-946-439-11	PLATE, TOP	
22	3-704-242-01	SCREW, TERMINAL, + BVTP CLAW	
23	* 3-703-244-00	BUSHING (2104), CORD	
24	* 1-640-953-14	ENCODER BOARD	
25	* 4-946-443-01	MOLD, REAR	
26	4-946-448-01	HOLDER (R)	
27	4-946-447-01	HOLDER (L)	
28	4-946-444-01	COVER, REAR	
29	* 1-640-954-14	POWER SW BOARD	
30	4-946-891-01	PANEL (R), SIDE	
31	4-928-635-01	SCREW, +BV (2. 6X8) TAPPING	
32	* A-4345-620-A	CONTROL BOARD, COMPLETE (AEP, UK, G)	
32	* A-4345-708-A	CONTROL BOARD, COMPLETE (IT)	
32	* A-4345-622-A	CONTROL BOARD, COMPLETE (US)	
33	* 4-921-941-71	CUSHION (FL)	
CNJ501 ⚠	1-526-751-00	OUTLET, AC (UK)	
CNJ501 ⚠	1-526-794-11	OUTLET, AC (AEP, G, IT)	
CNP501 ⚠	1-575-651-11	CORD, POWER (AEP, G, IT)	
CNP501 ⚠	1-575-669-11	CORD, POWER (UK)	
CNP501 ⚠	1-575-957-11	CORD, POWER (US)	
F501 ⚠	1-532-078-00	FUSE T1. 0A (EXCEPT US)	
FL701	1-519-602-11	INDICATOR TUBE, FLUORESCENT	
PT501 ⚠	1-450-679-11	TRANSFORMER, POWER (EXCEPT US)	
PT501 ⚠	1-450-680-11	TRANSFORMER, POWER (US)	
S501 ⚠	1-554-920-21	SWITCH, PUSH (AC POWER) (1KEY) (POWER)	
S722	1-466-336-21	ENCODER, ROTARY (TUNING)	

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- –XX, –X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA...: μA..., uPA...: μPA...,
  uPB...: μPB..., uPC...: μPC...,
  uPD...: μPD...
- CAPACITORS
  uF: μF
- COILS
  uH: μH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- Abbreviation
  G: Germany model
  IT: Italian model

Ref. No.	Part No.	Description	Remark
	* A-4345-615-A	TUNER BOARD, COMPLETE (AEP)	
	* A-4345-616-A	TUNER BOARD, COMPLETE (G, IT)	
	* A-4345-617-A	TUNER BOARD, COMPLETE (UK)	
	* A-4345-619-A	TUNER BOARD, COMPLETE (US)	
		******	
	* A-4345-620-A	CONTROL BOARD, COMPLETE (AEP, UK, G)	
	* A-4345-708-A	CONTROL BOARD, COMPLETE (IT)	
	* A-4345-622-A	CONTROL BOARD, COMPLETE (US)	
		**********	
	* 1-640-953-14	ENCODER BOARD	
		**********	
	* 1-640-954-14	POWER SW BOARD	
		**********	
	1-533-225-11	HOLDER, FUSE (EXCEPT US)	
	1-690-122-41	LEAD (WITH CONNECTOR) (2 CORE)	
	* 4-921-941-71	CUSHION (FL)	
	* 4-925-125-11	HOLDER, FL TUBE	
	7-685-646-79	SCREW +BVTP 3X8 TYPE2	
		< CAPACITOR >	
C101	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C102	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C103	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C104	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C105	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C106	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C107	1-124-910-11	ELECT 47uF 20% 50V	
C108	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C110	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C111	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C112	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C113	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C114	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C115	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C116	1-161-379-00	CERAMIC 0.01uF 20% 25V	

Ref. No.	Part No.	Description	Remark
C117	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C119	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C120	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C121	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C122	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C123	1-124-910-11	ELECT 47uF 20% 50V	
C124	1-126-163-11	ELECT 4.7uF 20% 50V	
C126	1-161-379-00	CERAMIC 0.01uF 20% 25V	(G, IT)
C127	1-161-379-00	CERAMIC 0.01uF 20% 25V	(G, IT)
C128	1-161-379-00	CERAMIC 0.01uF 20% 25V	(G, IT)
C130	1-161-379-00	CERAMIC 0.01uF 20% 25V	(G, IT)
C131	1-161-379-00	CERAMIC 0.01uF 20% 25V	(G, IT)
C132	1-161-379-00	CERAMIC 0.01uF 20% 25V	(G, IT)
C201	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C202	1-124-910-11	ELECT 47uF 20% 50V	(EXCEPT US)
C203	1-161-379-00	CERAMIC 0.01uF 20% 25V	(EXCEPT US)
C204	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C205	1-161-379-00	CERAMIC 0.01uF 20% 25V	(EXCEPT US)
C206	1-102-120-00	CERAMIC 0.0018uF 10% 50V	(EXCEPT US)
C207	1-102-119-00	CERAMIC 1500PF 10% 50V	(EXCEPT US)
C208	1-161-379-00	CERAMIC 0.01uF 20% 25V	(EXCEPT US)
C209	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C301	1-164-098-11	CERAMIC 0.047uF 12V	
C302	1-164-098-11	CERAMIC 0.047uF 12V	
C303	1-124-903-11	ELECT 1uF 20% 50V	
C304	1-162-282-31	CERAMIC 100PF 10% 50V	
C305	1-162-282-31	CERAMIC 100PF 10% 50V	
C306	1-162-290-31	CERAMIC 470PF 10% 50V	
C307	1-162-286-31	CERAMIC 220PF 10% 50V	
C308	1-124-910-11	ELECT 47uF 20% 50V	
C309	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C310	1-126-301-11	ELECT 1uF 20% 50V	
C311	1-126-163-11	ELECT 4.7uF 20% 50V	
C312	1-136-159-00	FILM 0.033uF 5% 50V	
C313	1-126-162-11	ELECT 3.3uF 20% 50V	

TUNER | CONTROL | ENCODER | POWER SW

Ref. No.	Part No.	Description				Remark
C314	1-126-163-11	ELECT	4.7uF	20%	50V	
C315	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C316	1-162-207-31	CERAMIC	22PF	5%	50V	
C317	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C318	1-124-915-11	ELECT	10uF	20%	63V	
C319	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C321	1-162-282-31	CERAMIC	100PF	10%	50V	
C401	1-136-155-00	FILM	0.015uF	5%	50V	
C402	1-124-915-11	ELECT	10uF	20%	63V	
C403	1-124-915-11	ELECT	10uF	20%	63V	
C404	1-162-288-31	CERAMIC	330PF	10%	50V	
C405	1-136-161-00	FILM	0.047uF	5%	50V	
C406	1-124-915-11	ELECT	10uF	20%	63V	
C407	1-110-342-11	MYLAR	390PF	5%	50V	(AEP, UK)
C407	1-130-468-00	MYLAR	560PF	5%	50V	(G, IT)
C407	1-130-469-00	PE TEREPHTHALATE	680PF	5%	50V	(US)
C408	1-110-342-11	MYLAR	390PF	5%	50V	(AEP, UK)
C408	1-130-468-00	MYLAR	560PF	5%	50V	(G, IT)
C408	1-130-469-00	PE TEREPHTHALATE	680PF	5%	50V	(US)
C409	1-123-382-00	ELECT	3.3uF	20%	100V	
C410	1-123-382-00	ELECT	3.3uF	20%	100V	
C411	1-161-375-00	CERAMIC	0.0022uF	20%	50V	
C412	1-161-375-00	CERAMIC	0.0022uF	20%	50V	
C413	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C414	1-124-903-11	ELECT	1uF	20%	50V	
C415	1-124-464-11	ELECT	0.22uF	20%	50V	
C416	1-123-382-00	ELECT	3.3uF	20%	100V	
C418	1-124-910-11	ELECT	47uF	20%	50V	
C419	1-124-915-11	ELECT	10uF	20%	63V	
C420	1-162-294-31	CERAMIC	0.001uF	10%	50V	(G, IT)
C421	1-162-294-31	CERAMIC	0.001uF	10%	50V	(G, IT)
C501	1-101-004-00	CERAMIC	0.01uF		50V	
C502	1-101-004-00	CERAMIC	0.01uF		50V	
C503	1-124-910-11	ELECT	47uF	20%	50V	
C504	1-124-910-11	ELECT	47uF	20%	50V	
C505	1-124-564-11	ELECT	4700uF	20%	25V	
C506	1-124-915-11	ELECT	10uF	20%	63V	
C508	1-124-925-11	ELECT	2.2uF	20%	100V	
C509	1-124-915-11	ELECT	10uF	20%	63V	
C511	1-124-911-11	ELECT	220uF	20%	50V	
C551	1-161-744-00	CERAMIC	0.01uF		400V	
C552	1-101-005-00	CERAMIC	22000PF		50V	
C553	1-161-741-00	CERAMIC	0.001uF	10%	400V	(G, IT)
C554	1-161-741-00	CERAMIC	0.001uF	10%	400V	(G, IT)
C601	1-124-915-11	ELECT	10uF	20%	63V	
C602	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C603	1-124-925-11	ELECT	2.2uF	20%	100V	
C604	1-124-463-00	ELECT	0.1uF	20%	50V	
C605	1-124-910-11	ELECT	47uF	20%	50V	
C606	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C607	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C608	1-102-961-00	CERAMIC	27PF	5%	50V	
C609	1-102-961-00	CERAMIC	27PF	5%	50V	
C610	1-124-902-00	ELECT	0.47uF	20%	50V	(EXCEPT US)
C611	1-161-379-00	CERAMIC	0.01uF	20%	25V	(EXCEPT US)
C701	1-126-157-11	ELECT	10uF	20%	16V	
C702	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C703	1-125-486-11	DUBLE LAYERS	0.22F		5.5V	
C704	1-126-163-11	ELECT	4.7uF	20%	50V	
C705	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C706	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C707	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C732	1-126-163-11	ELECT	4.7uF	20%	50V	
C740	1-162-286-31	CERAMIC	220P	10%	50V	
C741	1-162-286-31	CERAMIC	220P	10%	50V	
C742	1-162-286-31	CERAMIC	220P	10%	50V	
C743	1-162-286-31	CERAMIC	220P	10%	50V	
C744	1-162-286-31	CERAMIC	220P	10%	50V	
C745	1-162-286-31	CERAMIC	220P	10%	50V	
C746	1-162-286-31	CERAMIC	220P	10%	50V	
C747	1-162-286-31	CERAMIC	220P	10%	50V	
C748	1-162-286-31	CERAMIC	220P	10%	50V	
C749	1-162-286-31	CERAMIC	220P	10%	50V	
C750	1-162-286-31	CERAMIC	220P	10%	50V	
C751	1-124-589-11	ELECT	47uF	20%	16V	
C752	1-162-286-31	CERAMIC	220P	10%	50V	
C753	1-162-286-31	CERAMIC	220P	10%	50V	
C754	1-162-286-31	CERAMIC	220P	10%	50V	
C755	1-162-286-31	CERAMIC	220P	10%	50V	
C756	1-162-286-31	CERAMIC	220P	10%	50V	

< FILTER/OSCILLATOR >

CF101	1-567-389-11	FILTER, CERAMIC
CF102	1-567-389-11	FILTER, CERAMIC
CF103	1-567-389-11	FILTER, CERAMIC
CF104	1-577-299-31	FILTER, CERAMIC
CF301	1-527-981-00	FILTER, CERAMIC
CF401	1-567-250-11	OSCILLATOR, CERAMIC 18.95KHz
CF701	1-577-360-11	VIBRATOR, CERAMIC 6.00MHz

< CONNECTOR >

CN501	* 1-564-321-00	PIN, CONNECTOR 2P
CN502	* 1-564-342-11	PIN, CONNECTOR 8P
CN503	* 1-564-342-61	PIN, CONNECTOR 8P
CN504	1-564-321-00	PIN, CONNECTOR 2P
CN506	* 1-564-321-00	PIN, CONNECTOR 2P (EXCEPT US)
CNJ401	* 1-573-674-11	JACK, PIN 2P (OUTPUT)
CNJ501	⚠ 1-540-058-11	OUTLET, AC (US)

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

TUNER CONTROL ENCODER POWER SW

Ref. No.	Part No.	Description	Remark
		< RESISTOR ARRAY >	
CP701	1-233-185-11	COMPOSITION CIRCUIT BLOCK	
CP702	1-232-986-11	COMPOSITION CIRCUIT BLOCK	
CP703	1-232-986-11	COMPOSITION CIRCUIT BLOCK	
		< DIODE >	
D101	8-719-022-21	DIODE 1T22A	
D151	8-719-912-20	DIODE 1SS120	
D201	8-719-912-20	DIODE 1SS120	
D401	8-719-912-20	DIODE 1SS120	
D402	8-719-912-20	DIODE 1SS120	
D403	8-719-912-20	DIODE 1SS120	
D404	8-719-912-20	DIODE 1SS120	
D405	8-719-912-20	DIODE 1SS120	
D501	8-719-200-77	DIODE 10E2N	
D502	8-719-200-77	DIODE 10E2N	
D503	8-719-912-20	DIODE 1SS120	
D504	8-719-912-20	DIODE 1SS120	
D505	8-719-930-12	DIODE EQB01-12Z	
D506	8-719-011-27	DIODE UZ-39BSB	
D701	8-719-912-20	DIODE 1SS120	
D702	8-719-912-20	DIODE 1SS120	
D703	8-719-912-20	DIODE 1SS120	
D705	8-719-912-20	DIODE 1SS120 (IT, US)	
D706	8-719-912-20	DIODE 1SS120 (US)	
D709	8-719-912-20	DIODE 1SS120	
D710	8-719-912-20	DIODE 1SS120	
D711	8-719-912-20	DIODE 1SS120	
D712	8-719-912-20	DIODE 1SS120	
D713	8-719-912-20	DIODE 1SS120	
D714	8-719-912-20	DIODE 1SS120	
D715	8-719-912-20	DIODE 1SS120	
D716	8-719-912-20	DIODE 1SS120	
D717	8-719-912-20	DIODE 1SS120	
D718	8-719-912-20	DIODE 1SS120	
D721	8-719-303-02	DIODE SEL2510C-D (POWER)	
		< FRONT END >	
FE101	1-463-857-11	FRONT END (FM) (G, IT)	
FE101	1-465-219-11	FRONT END (AEP, UK, US)	
FE201	1-236-461-11	ENCAPSULATED COMPONENT (US)	
FE201	1-236-462-11	ENCAPSULATED COMPONENT (EXCEPT US)	
FE202	1-236-463-11	ENCAPSULATED COMPONENT (EXCEPT US)	
		< INDICATOR >	
FL701	1-519-602-11	INDICATOR TUBE, FLUORESCENT	

Ref. No.	Part No.	Description	Remark
		< IC >	
IC101	8-759-812-35	IC LA1235	
IC301	8-759-804-55	IC LA1266	
IC401	8-759-801-80	IC LA3401	
IC501	8-759-820-09	IC LA5667	
IC601	8-759-820-91	IC LC7218	
IC701	8-759-239-28	IC TMP47C870N-4684	
IC702	8-749-922-36	IC GP1U50XB	
		< TRANSFORMER >	
IFT301	1-404-713-11	TRANSFORMER, IF	
		< COIL >	
L101	1-408-421-00	INDUCTOR 100uH	
L102	1-408-421-00	INDUCTOR 100uH	
L103	1-408-421-00	INDUCTOR 100uH	
L201	1-408-425-00	INDUCTOR 220uH (EXCEPT US)	
L301	1-407-500-00	INDUCTOR 4.7mH	
L401	1-410-470-11	INDUCTOR 10uH (G, IT)	
L402	1-410-470-11	INDUCTOR 10uH (G, IT)	
L701	1-410-521-11	INDUCTOR 100uH	
		< FILTER >	
LPF401	1-235-164-00	FILTER, LOW PASS	
LPF402	1-235-164-00	FILTER, LOW PASS	
		< TRANSFORMER >	
PT501 ⚠	1-450-679-11	TRANSFORMER, POWER (EXCEPT US)	
PT501 ⚠	1-450-680-11	TRANSFORMER, POWER (US)	
		< TRANSISTOR >	
Q101	8-729-230-XX	TRANSISTOR 2SC2669-OY	
Q102	8-729-230-XX	TRANSISTOR 2SC2669-OY	
Q103	8-729-230-XX	TRANSISTOR 2SC2669-OY	
Q104	8-729-230-XX	TRANSISTOR 2SC2669-OY	
Q105	8-729-900-65	TRANSISTOR DTA144ES	
Q106	8-729-900-80	TRANSISTOR DTC114ES	
Q107	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q108	8-729-230-XX	TRANSISTOR 2SC2669-OY	
Q109	8-729-230-XX	TRANSISTOR 2SC2669-OY	
Q110	8-729-904-39	TRANSISTOR DTC114TS	
Q111	8-729-904-39	TRANSISTOR DTC114TS	
Q112	8-729-904-39	TRANSISTOR DTC114TS	
Q113	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q114	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q201	8-729-900-80	TRANSISTOR DTC114ES (EXCEPT US)	

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

TUNER CONTROL ENCODER POWER SW

Ref. No.	Part No.	Description	Remark
Q202	8-729-620-05	TRANSISTOR 2SC2603-EF	(EXCEPT US)
Q204	8-729-900-89	TRANSISTOR DTC144ES	(EXCEPT US)
Q205	8-729-900-89	TRANSISTOR DTC144ES	(EXCEPT US)
Q206	8-729-141-30	TRANSISTOR 2SC3623A-LK	(EXCEPT US)
Q207	8-729-900-89	TRANSISTOR DTC144ES	(EXCEPT US)
Q208	8-729-900-89	TRANSISTOR DTC144ES	(EXCEPT US)
Q209	8-729-900-89	TRANSISTOR DTC144ES	(EXCEPT US)
Q301	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q401	8-729-900-80	TRANSISTOR DTC114ES	
Q402	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q403	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q601	8-729-202-67	TRANSISTOR 2SK246-GR3	
Q602	8-729-201-84	TRANSISTOR 2SC3112A-B	
Q603	8-729-202-67	TRANSISTOR 2SK246-GR3	(EXCEPT US)
Q604	8-729-201-84	TRANSISTOR 2SC3112A-B	(EXCEPT US)

< RESISTOR >

Ref. No.	Part No.	Description			Remark
R101	1-249-411-11	CARBON	330	5%	1/4W
R102	1-249-411-11	CARBON	330	5%	1/4W (AEP, UK)
R103	1-249-411-11	CARBON	330	5%	1/4W
R104	1-249-432-11	CARBON	18K	5%	1/4W
R105	1-249-411-11	CARBON	330	5%	1/4W
R106	1-249-411-11	CARBON	330	5%	1/4W
R107	1-249-434-11	CARBON	27K	5%	1/4W
R108	1-249-411-11	CARBON	330	5%	1/4W
R109	1-249-432-11	CARBON	18K	5%	1/4W
R110	1-249-411-11	CARBON	330	5%	1/4W
R111	1-249-411-11	CARBON	330	5%	1/4W
R112	1-249-434-11	CARBON	27K	5%	1/4W
R113 ⚠	1-249-399-11	CARBON	33	5%	1/4W
R114	1-249-439-11	CARBON	68K	5%	1/4W
R115	1-249-425-11	CARBON	4.7K	5%	1/4W
R116	1-249-429-11	CARBON	10K	5%	1/4W
R117	1-249-429-11	CARBON	10K	5%	1/4W
R118	1-249-413-11	CARBON	470	5%	1/4W
R119	1-249-411-11	CARBON	330	5%	1/4W
R120	1-249-432-11	CARBON	18K	5%	1/4W
R121	1-249-408-11	CARBON	180	5%	1/4W
R122	1-249-411-11	CARBON	330	5%	1/4W
R123	1-249-434-11	CARBON	27K	5%	1/4W
R124	1-249-441-11	CARBON	100K	5%	1/4W
R125	1-249-411-11	CARBON	330	5%	1/4W
R126	1-249-429-11	CARBON	10K	5%	1/4W
R127	1-249-429-11	CARBON	10K	5%	1/4W
R128	1-249-431-11	CARBON	15K	5%	1/4W
R129	1-249-427-11	CARBON	6.8K	5%	1/4W
R130	1-249-427-11	CARBON	6.8K	5%	1/4W
R131	1-249-411-11	CARBON	330	5%	1/4W
R132 ⚠	1-249-405-11	CARBON	100	5%	1/4W

Ref. No.	Part No.	Description			Remark
R133	1-249-431-11	CARBON	15K	5%	1/4W
R151	1-249-404-00	CARBON	82	5%	1/4W
R152	1-247-800-11	CARBON	51	5%	1/4W
R153	1-249-398-11	CARBON	27	5%	1/4W
R154	1-247-800-11	CARBON	51	5%	1/4W
R201	1-249-441-11	CARBON	100K	5%	1/4W
R202	1-249-437-11	CARBON	47K	5%	1/4W
R203	1-249-441-11	CARBON	100K	5%	1/4W (EXCEPT US)
R204	1-249-417-11	CARBON	1K	5%	1/4W (EXCEPT US)
R205	1-249-429-11	CARBON	10K	5%	1/4W (EXCEPT US)
R206	1-249-441-11	CARBON	100K	5%	1/4W (EXCEPT US)
R207	1-249-437-11	CARBON	47K	5%	1/4W (EXCEPT US)
R208	1-247-903-00	CARBON	1M	5%	1/4W (EXCEPT US)
R209	1-249-423-11	CARBON	3.3K	5%	1/4W (EXCEPT US)
R210	1-249-441-11	CARBON	100K	5%	1/4W
R301 ⚠	1-249-407-11	CARBON	150	5%	1/4W
R302	1-249-431-11	CARBON	15K	5%	1/4W
R303	1-249-423-11	CARBON	3.3K	5%	1/4W
R304	1-249-421-11	CARBON	2.2K	5%	1/4W
R305	1-249-434-11	CARBON	27K	5%	1/4W
R306	1-249-441-11	CARBON	100K	5%	1/4W
R307	1-249-439-11	CARBON	68K	5%	1/4W
R308	1-247-848-11	CARBON	5.1K	5%	1/4W
R309	1-249-429-11	CARBON	10K	5%	1/4W
R310	1-249-423-11	CARBON	3.3K	5%	1/4W
R311	1-249-404-00	CARBON	82	5%	1/4W
R312	1-249-417-11	CARBON	1K	5%	1/4W
R313	1-249-421-11	CARBON	2.2K	5%	1/4W
R402	1-249-421-11	CARBON	2.2K	5%	1/4W
R403	1-247-883-00	CARBON	150K	5%	1/4W
R404	1-247-883-00	CARBON	150K	5%	1/4W
R405	1-247-881-00	CARBON	120K	5%	1/4W (EXCEPT US)
R405	1-249-441-11	CARBON	100K	5%	1/4W F (US)
R406	1-247-881-00	CARBON	120K	5%	1/4W (EXCEPT US)
R406	1-249-441-11	CARBON	100K	5%	1/4W F (US)
R407	1-249-421-11	CARBON	2.2K	5%	1/4W
R408	1-249-421-11	CARBON	2.2K	5%	1/4W
R409	1-249-426-11	CARBON	5.6K	5%	1/4W
R410	1-249-426-11	CARBON	5.6K	5%	1/4W
R411	1-249-429-11	CARBON	10K	5%	1/4W
R412	1-249-429-11	CARBON	10K	5%	1/4W
R413	1-249-441-11	CARBON	100K	5%	1/4W
R414	1-249-429-11	CARBON	10K	5%	1/4W
R415	1-249-429-11	CARBON	10K	5%	1/4W
R416	1-249-423-11	CARBON	3.3K	5%	1/4W
R417	1-249-431-11	CARBON	15K	5%	1/4W
R418	1-249-426-11	CARBON	5.6K	5%	1/4W
R419 ⚠	1-249-401-11	CARBON	47	5%	1/4W
R501 ⚠	1-247-752-11	CARBON	1K	5%	1/2W F

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

TUNER CONTROL ENCODER POWER SW

Ref. No.	Part No.	Description				Remark
R502	1-249-437-11	CARBON	47K	5%	1/4W	
R503	1-249-441-11	CARBON	100K	5%	1/4W	
R510 ⚠	1-202-725-00	CARBON	3.3K	10%	1/2W	(US)
R601	1-249-417-11	CARBON	1K	5%	1/4W	
R602	1-249-417-11	CARBON	1K	5%	1/4W	
R603	1-249-417-11	CARBON	1K	5%	1/4W	
R604	1-249-417-11	CARBON	1K	5%	1/4W	
R609	1-249-429-11	CARBON	10K	5%	1/4W	
R610	1-249-429-11	CARBON	10K	5%	1/4W	
R611	1-249-429-11	CARBON	10K	5%	1/4W	
R612 ⚠	1-249-401-11	CARBON	47	5%	1/4W	
R613 ⚠	1-249-405-11	CARBON	100	5%	1/4W	
R614	1-249-423-11	CARBON	3.3K	5%	1/4W	
R615	1-249-414-11	CARBON	560	5%	1/4W	
R616	1-249-418-11	CARBON	1.2K	5%	1/4W	
R617	1-249-410-11	CARBON	270	5%	1/4W	
R618	1-249-425-11	CARBON	4.7K	5%	1/4W	
R619	1-249-421-11	CARBON	2.2K	5%	1/4W	
R620	1-249-425-11	CARBON	4.7K	5%	1/4W	
R621	1-249-425-11	CARBON	4.7K	5%	1/4W	
R622	1-249-405-11	CARBON	100	5%	1/4W	
R623	1-249-417-11	CARBON	1K	5%	1/4W	(EXCEPT US)
R624	1-249-414-11	CARBON	560	5%	1/4W	(EXCEPT US)
R625	1-249-418-11	CARBON	1.2K	5%	1/4W	(EXCEPT US)
R626	1-249-410-11	CARBON	270	5%	1/4W	(EXCEPT US)
R627	1-249-433-11	CARBON	22K	5%	1/4W	(EXCEPT US)
R628	1-249-421-11	CARBON	2.2K	5%	1/4W	(EXCEPT US)
R629	1-249-425-11	CARBON	4.7K	5%	1/4W	(EXCEPT US)
R630	1-249-429-11	CARBON	10K	5%	1/4W	
R631	1-249-429-11	CARBON	10K	5%	1/4W	
R701	1-249-405-11	CARBON	100	5%	1/4W	
R702	1-249-441-11	CARBON	100K	5%	1/4W	
R703	1-249-417-11	CARBON	1K	5%	1/4W	
R704	1-249-411-11	CARBON	330	5%	1/4W	
R705	1-249-411-11	CARBON	330	5%	1/4W	
R706	1-249-429-11	CARBON	10K	5%	1/4W	
R707	1-249-441-11	CARBON	100K	5%	1/4W	
R708	1-249-441-11	CARBON	100K	5%	1/4W	
R710	1-249-429-11	CARBON	10K	5%	1/4W	
R711	1-249-411-11	CARBON	330	5%	1/4W	
R712	1-249-437-11	CARBON	47K	5%	1/4W	

< VARIABLE RESISTOR >

RV101	1-238-599-11	RES, ADJ, CARBON	4.7K
RV102	1-238-600-11	RES, ADJ, CARBON	10K
RV301	1-238-603-11	RES, ADJ, CARBON	100K
RV302	1-238-601-11	RES, ADJ, CARBON	22K
RV401	1-238-603-11	RES, ADJ, CARBON	100K

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
		< RELAY >	
RY151	1-515-614-11	RELAY	
		< SWITCH >	
S501 ⚠	1-554-920-21	SWITCH, PUSH (AC POWER) (1 KEY) (POWER)	
S701	1-554-303-21	SWITCH, TACTILE (1)	
S702	1-554-303-21	SWITCH, TACTILE (2)	
S703	1-554-303-21	SWITCH, TACTILE (3)	
S704	1-554-303-21	SWITCH, TACTILE (4)	
S705	1-554-303-21	SWITCH, TACTILE (5)	
S706	1-554-303-21	SWITCH, TACTILE (6)	
S707	1-554-303-21	SWITCH, TACTILE (7)	
S708	1-554-303-21	SWITCH, TACTILE (8)	
S709	1-554-303-21	SWITCH, TACTILE (9)	
S710	1-554-303-21	SWITCH, TACTILE (0)	
S711	1-554-303-21	SWITCH, TACTILE (AUTO TUNING)	
S712	1-554-303-21	SWITCH, TACTILE (ANT-ATT)	
S713	1-554-303-21	SWITCH, TACTILE (STEREO/MUTE)	
S714	1-554-303-21	SWITCH, TACTILE (BAND)	
S715	1-554-303-21	SWITCH, TACTILE (IF BAND)	
S716	1-554-303-21	SWITCH, TACTILE (MEMORY)	
S717	1-554-303-21	SWITCH, TACTILE (SHIFT)	
S718	1-554-303-21	SWITCH, TACTILE (TUNING/PRESET)	
S722	1-466-336-21	ENCODER, ROTARY (TUNING)	
		< TRANSFORMER >	
T301	1-404-743-11	COIL, DISCRIMINATOR	
T302	1-404-742-11	COIL, DISCRIMINATOR	
T303	1-236-465-11	ENCAPSULATED COMPONENT (G, IT)	
		< TERMINAL >	
TM101 *	1-537-389-11	TERMINAL BOARD (ANTENNA)	
		< TEST PIN >	
TP301 *	1-560-060-00	PIN, CONNECTOR 2P	
		< VIBRATOR, CERAMIC >	
X601	1-577-126-11	VIBRATOR, CRYSTAL 7.2MHz	

****

MISCELLANEOUS
****

CNJ501 ⚠	1-526-751-00	OUTLET, AC (UK)
CNJ501 ⚠	1-526-794-11	OUTLET, AC (AEP, G, IT)
CNP501 ⚠	1-575-651-11	CORD, POWER (AEP, G, IT)
CNP501 ⚠	1-575-669-11	CORD, POWER (UK)
CNP501 ⚠	1-575-975-11	CORD, POWER (US)
F501 ⚠	1-532-078-00	FUSE T1.0A (EXCEPT US)

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-417-141-11	MATCHING TRANSFORMER, ANTENNA	
	1-501-224-00	ANTENNA, FEEDER	
	1-501-374-11	ANTENNA, LOOP	
	1-559-533-11	CORD, CONNECTION	
*	3-371-941-01	CUSHION	
*	3-371-942-11	INDIVIDUAL CARTON	
*	3-704-343-01	SHEET (STANDARD), PROTECTION	
	3-753-804-11	MANUAL, INSTRUCTION (AEP, UK, US) (ENGLISH, FRENCH, SPANESH, PORTUGUESE)	
	3-753-804-41	MANUAL, INSTRUCTION (AEP, G, IT) (GERMAN, DUTCH, SWEDISH, ITALIAN)	

****

HARDWARE LIST

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#1	7-685-203-19	SCREW +KTP 2X5 TYPE2 NON-SLIT
#2	7-682-547-09	SCREW +BV 3X6, S TIGHT
#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2
#4	7-682-548-09	SCREW +BVTT 3X8 (S)
#5	7-682-550-09	SCREW +BVTT 3X12 (S)
#6	7-621-849-00	SCREW (BV/RING)

9-956-603-12

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ST-S7

SONY
SERVICE MANUAL

US Model
AEP Model
UK Model

CORRECTION-1

Correct your service manual as shown below.

☛ : **indicates corrected portion.**

Page	INCORRECT			CORRECT	
	No.	Part No.	Description	Part No.	Description
18	CNP501	⚠1-575-957-11	CORD, POWER (US)	⚠1-575-975-11 ☛	CORD, POWER (US)

Sony Corporation
Consumer A&V Products Company
Home A&V Products Div.

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English

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